



-1-

SEQUENCE LISTING

<110> Nisson, Paul
Jesse, Joel
Li, Wu-bo

<120> Method for Isolating and Recovering Target DNA or RNA
Molecules Having a Desired Nucleotide Sequence

<130> 0942.4800002/RWE/ALS

<140> US 09/829,066
<141> 2001-04-10

<150> US 09/103,577
<151> 1998-06-24

<150> US 60/050,729
<151> 1997-06-25

<160> 12

<170> PatentIn version 3.0

<210> 1
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> degenerate oligonucleotide

<220>
<221> misc_feature
<222> 3
<223> where n is g, t, a, or c

<220>
<221> misc_feature
<222> 12
<223> where n is g, t, a, or c

<220>
<221> misc_feature
<222> 21
<223> where n is g, t, a, or c

<400> 1
gtn tgy gay ggn tty cay gtn gg

23

<210> 2
<211> 23
<212> DNA
<213> Artificial Sequence

<220>

<223> degenerate oligonucleotide

<220>

<221> misc_feature

<222> 3

<223> where n is 2-amino-6-methoxyaminopurine

<220>

<221> misc_feature

<222> 6

<223> where n is 6H,8H-3,4-dihydropyrimido[4,5-c][1,2]oxazin-7-one

<220>

<221> misc_feature

<222> 9

<223> where n is 6H,8H-3,4-dihydropyrimido[4,5-c][1,2]oxazin-7-one

<220>

<221> misc_feature

<222> 12

<223> where n is 2-amino-6-methoxyaminopurine

<220>

<221> misc_feature

<222> 15

<223> where n is 6H,8H-3,4-dihydropyrimido[4,5-c][1,2]oxazin-7-one

<220>

<221> misc_feature

<222> 18

<223> where n is 6H,8H-3,4-dihydropyrimido[4,5-c][1,2]oxazin-7-one

<220>

<221> misc_feature

<222> 21

<223> where n is 2-amino-6-methoxyaminopurine

<400> 2

gtn tgn gan ggn ttn can gtn gg

23

<210> 3

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> degenerate oligonucleotide

<220>

<221> misc_feature

<222> 3

<223> where n is 2-amino-6-methoxyaminopurine

<220>

<221> misc_feature

<222> 6

<223> where n is 6H,8H-3,4-dihydropyrimido[4,5-c][1,2]oxazin-7-one

<220>

<221> misc_feature

<222> 9
<223> where n is 6H,8H-3,4-dihydropyrimido[4,5-c][1,2]oxazin-7-one

<220>
<221> misc_feature
<222> 12
<223> where n is 2-amino-6-methoxyaminopurine

<220>
<221> misc_feature
<222> 15
<223> where n is 6H,8H-3,4-dihydropyrimido[4,5-c][1,2]oxazin-7-one

<220>
<221> misc_feature
<222> 18
<223> where n is 6H,8H-3,4-dihydropyrimido[4,5-c][1,2]oxazin-7-one

<220>
<221> misc_feature
<222> 21
<223> where n is 6H,8H-3,4-dihydropyrimido[4,5-c][1,2]oxazin-7-one

<400> 3
gtn tgn gan ggn ttn can gtn gg

23

<210> 4
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> degenerate oligonucleotide

<220>
<221> misc_feature
<222> 3
<223> where n is 2-amino-6-methoxyaminopurine

<220>
<221> misc_feature
<222> 6
<223> where n is 6H,8H-3,4-dihydropyrimido[4,5-c][1,2]oxazin-7-one

<220>
<221> misc_feature
<222> 9
<223> where n is 6H,8H-3,4-dihydropyrimido[4,5-c][1,2]oxazin-7-one

<220>
<221> misc_feature
<222> 12
<223> where n is 6H,8H-3,4-dihydropyrimido[4,5-c][1,2]oxazin-7-one

<220>
<221> misc_feature
<222> 15
<223> where n is 6H,8H-3,4-dihydropyrimido[4,5-c][1,2]oxazin-7-one

<220>

<221> misc_feature
<222> 18
<223> where n is 6H,8H-3,4-dihydropyrimido[4,5-c][1,2]oxazin-7-one

<220>
<221> misc_feature
<222> 21
<223> where n is 2-amino-6-methoxyaminopurine

<400> 4
gtn tgn gan ggn ttn can gtn gg

23

<210> 5
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> degenerate oligonucleotide

<220>
<221> misc_feature
<222> 3
<223> where n is 6H,8H-3,4-dihydropyrimido[4,5-c][1,2]oxazin-7-one

<220>
<221> misc_feature
<222> 6
<223> where n is 6H,8H-3,4-dihydropyrimido[4,5-c][1,2]oxazin-7-one

<220>
<221> misc_feature
<222> 9
<223> where n is 6H,8H-3,4-dihydropyrimido[4,5-c][1,2]oxazin-7-one

<220>
<221> misc_feature
<222> 12
<223> where n is 2-amino-6-methoxyaminopurine

<220>
<221> misc_feature
<222> 15
<223> where n is 6H,8H-3,4-dihydropyrimido[4,5-c][1,2]oxazin-7-one

<220>
<221> misc_feature
<222> 18
<223> where n is 6H,8H-3,4-dihydropyrimido[4,5-c][1,2]oxazin-7-one

<220>
<221> misc_feature
<222> 21
<223> where n is 2-amino-6-methoxyaminopurine

<400> 5
gtn tgn gan ggn ttn can gtn gg

23

<210> 6
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> degenerate oligonucleotide

<220>
<221> misc_feature
<222> 3
<223> where n is 6H,8H-3,4-dihydropyrimido[4,5-c][1,2]oxazin-7-one

<220>
<221> misc_feature
<222> 6
<223> where n is 6H,8H-3,4-dihydropyrimido[4,5-c][1,2]oxazin-7-one

<220>
<221> misc_feature
<222> 9
<223> where n is 6H,8H-3,4-dihydropyrimido[4,5-c][1,2]oxazin-7-one

<220>
<221> misc_feature
<222> 12
<223> where n is 2-amino-6-methoxyaminopurine

<220>
<221> misc_feature
<222> 15
<223> where n is 6H,8H-3,4-dihydropyrimido[4,5-c][1,2]oxazin-7-one

<220>
<221> misc_feature
<222> 18
<223> where n is 6H,8H-3,4-dihydropyrimido[4,5-c][1,2]oxazin-7-one

<220>
<221> misc_feature
<222> 21
<223> where n is 6H,8H-3,4-dihydropyrimido[4,5-c][1,2]oxazin-7-one

<400> 6
gtn tgn gan ggn ttn can gtn gg

23

<210> 7
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> degenerate oligonucleotide

<220>
<221> misc_feature
<222> 3
<223> where n is 2-amino-6-methoxyaminopurine

<220>

<221> misc_feature
<222> 6
<223> where n is 6H,8H-3,4-dihydropyrimido[4,5-c][1,2]oxazin-7-one

<220>
<221> misc_feature
<222> 9
<223> where n is 6H,8H-3,4-dihydropyrimido[4,5-c][1,2]oxazin-7-one

<220>
<221> misc_feature
<222> 12
<223> where n is 6H,8H-3,4-dihydropyrimido[4,5-c][1,2]oxazin-7-one

<220>
<221> misc_feature
<222> 15
<223> where n is 6H,8H-3,4-dihydropyrimido[4,5-c][1,2]oxazin-7-one

<220>
<221> misc_feature
<222> 18
<223> where n is 6H,8H-3,4-dihydropyrimido[4,5-c][1,2]oxazin-7-one

<220>
<221> misc_feature
<222> 21
<223> where n is 6H,8H-3,4-dihydropyrimido[4,5-c][1,2]oxazin-7-one

<400> 7
gtn tgn gan ggn ttn can.gtn gg

23

<210> 8
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> degenerate oligonucleotide

<220>
<221> misc_feature
<222> 3
<223> where n is 6H,8H-3,4-dihydropyrimido[4,5-c][1,2]oxazin-7-one

<220>
<221> misc_feature
<222> 6
<223> where n is 6H,8H-3,4-dihydropyrimido[4,5-c][1,2]oxazin-7-one

<220>
<221> misc_feature
<222> 9
<223> where n is 6H,8H-3,4-dihydropyrimido[4,5-c][1,2]oxazin-7-one

<220>
<221> misc_feature
<222> 12
<223> where n is 6H,8H-3,4-dihydropyrimido[4,5-c][1,2]oxazin-7-one

<220>
<221> misc_feature
<222> 15
<223> where n is 6H,8H-3,4-dihydropyrimido[4,5-c][1,2]oxazin-7-one

<220>
<221> misc_feature
<222> 18
<223> where n is 6H,8H-3,4-dihydropyrimido[4,5-c][1,2]oxazin-7-one

<220>
<221> misc_feature
<222> 21
<223> where n is 2-amino-6-methoxyaminopurine

<400> 8
gtn tgn gan ggn ttn can gtn gg

23

<210> 9
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> degenerate oligonucleotide

<220>
<221> misc_feature
<222> 3
<223> where n is 6H,8H-3,4-dihydropyrimido[4,5-c][1,2]oxazin-7-one

<220>
<221> misc_feature
<222> 6
<223> where n is 6H,8H-3,4-dihydropyrimido[4,5-c][1,2]oxazin-7-one

<220>
<221> misc_feature
<222> 9
<223> where n is 6H,8H-3,4-dihydropyrimido[4,5-c][1,2]oxazin-7-one

<220>
<221> misc_feature
<222> 12
<223> where n is 6H,8H-3,4-dihydropyrimido[4,5-c][1,2]oxazin-7-one

<220>
<221> misc_feature
<222> 15
<223> where n is 6H,8H-3,4-dihydropyrimido[4,5-c][1,2]oxazin-7-one

<220>
<221> misc_feature
<222> 18
<223> where n is 6H,8H-3,4-dihydropyrimido[4,5-c][1,2]oxazin-7-one

<220>
<221> misc_feature
<222> 21
<223> where n is 6H,8H-3,4-dihydropyrimido[4,5-c][1,2]oxazin-7-one

<400> 9
gtn tgn gan ggn ttn can gtn gg

23

<210> 10
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> oligonucleotide

<400> 10
gac cgt tca gct gga tat tac ggc c

25

<210> 11
<211> 13
<212> DNA
<213> Artificial Sequence

<220>
<223> consensus sequence for initiation
of translation by eukaryotic ribosomes

<400> 11
gcc gcc rcc aug g

13

<210> 12
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> degenerate oligonucleotide

<220>
<221> misc_feature
<222> 3
<223> where n is 6H,8H-3,4-dihydropyrimido[4,5-c][1,2]oxazin-7-one
or 2-amino-6-methoxyaminopurine

<220>
<221> misc_feature
<222> 6
<223> where n is 6H,8H-3,4-dihydropyrimido[4,5-c][1,2]oxazin-7-one

<220>
<221> misc_feature
<222> 9
<223> where n is 6H,8H-3,4-dihydropyrimido[4,5-c][1,2]oxazin-7-one

<220>
<221> misc_feature
<222> 12
<223> where n is 6H,8H-3,4-dihydropyrimido[4,5-c][1,2]oxazin-7-one
or 2-amino-6-methoxyaminopurine

<220>
<221> misc_feature
<222> 15
<223> where n is 6H,8H-3,4-dihydropyrimido[4,5-c][1,2]oxazin-7-one

<220>
<221> misc_feature
<222> 18
<223> where n is 6H,8H-3,4-dihydropyrimido[4,5-c][1,2]oxazin-7-one

<220>
<221> misc_feature
<222> 21
<223> where n is 6H,8H-3,4-dihydropyrimido[4,5-c][1,2]oxazin-7-one
or 2-amino-6-methoxyaminopurine

<400> 12
gtn tgn gan ggn ttn can gtn gg